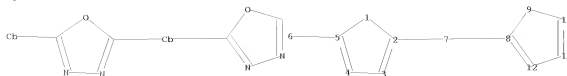


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chain nodes :

6 7

ring nodes :

1 2 3 4 5 8 9 10 11 12

chain bonds :

2-7 5-6 7-8

ring bonds :

1-2 1-5 2-3 3-4 4-5 8-9 8-12 9-10 10-11 11-12

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 8-9 8-12 9-10 10-11 11-12

exact bonds :

2-7 5-6 7-8

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom

L1 STRUCTURE UPLOADED

=> s l1 sss sam

SAMPLE SEARCH INITIATED 14:55:24 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 310 TO ITERATE

100.0% PROCESSED 310 ITERATIONS

44 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 5144 TO 7256

PROJECTED ANSWERS: 483 TO 1277

L2 44 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 14:55:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 6528 TO ITERATE

100.0% PROCESSED 6528 ITERATIONS

863 ANSWERS

SEARCH TIME: 00.00.01

L3 863 SEA SSS FUL L1

=> s l3

L4 706 L3

=> s l4 and polymer

1180643 POLYMER

941332 POLYMERS

1579171 POLYMER

(POLYMER OR POLYMERS)
L5 261 L4 AND POLYMER

=> s 15 and electrolumin?
79175 ELECTROLUMIN?
L6 115 L5 AND ELECTROLUMIN?

=> s 16 and py<=2003
23979372 PY<=2003
L7 67 L6 AND PY<=2003

=> d scan 17

L7 67 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
Title

Electroluminescent devices using amino-substituted polyaromatic compounds as hole-transporting or hole-injecting layers
Concept or Classification
73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties) Section cross-reference(s): 38, 76

L7 67 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
Title

Oxadiazoles and phenylquinoxalines as electron transport materials
Concept or Classification
73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties) Section cross-reference(s): 38

L7 67 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
Title

Amorphous organic thin film device and amorphous organic polymer composition
Concept or Classification
74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 37,
52, 73, 76

=> s 17 and dev/rl
790740 DEV/RL
L8 52 L7 AND DEV/RL

=> d 18 ibib hitstr

L8 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2008 ACS on STN
Title

Improvement of emission efficiency in polymer light-emitting devices based on phosphorescent polymers
Author/Inventor
Tokito, Shizuo; Suzuki, Mitsunori; Sato, Fumio
Patent Assignee/Corporate Source
NHK Science and Technical Research Laboratories, Setagaya-ku, Tokyo, 157-8510, Japan
Source
Thin Solid Films (2003), 445(2), 353-357 CODEN: THSFAP; ISSN: 0040-6090
Document Type
Journal
Language
English

=> s 18 not 138372-67-5/rn
224 138372-67-5
0 138372-67-5D
224 138372-67-5/RN
(138372-67-5 (NOTL) 138372-67-5D)
L9 27 L8 NOT 138372-67-5/RN

=> d 19 1-27 ibib hitstr

L9 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN
Title

Organic electroluminescent devices of high luminescent efficiency and heat stability and tris(thienylphenyl)amine derivatives therefor
Author/Inventor
Yamamoto, Kimitoshi; Cho, Chun-Shi; Higuchi, Masayoshi; Kojima, Yojiro
Patent Assignee/Corporate Source
Kanagawa Academy of Science and Technology, Japan
Source

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

Document Type
Patent
Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003267972	A	20030925	JP 2002-66189	20020311

Patent Number (1)

JP 2003267972

Kind Code (1)

A

Patent Publication Date (1)

20030925

Application Number (1)

JP 2002-66189

Application Date (1)

20020311

Priority Patent Number (1)

JP 2002-66189

Priority Patent Publication Date (1)

20020311

L9 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Luminescent copoly(aryl ether)s consisting of alternate oxadiazole and 1,4-distyrylbenzene derivatives: Synthesis and characterization

Author/Inventor

Yu, Yun-Hao; Chen, Yun

Patent Assignee/Corporate Source

Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan

Source

Journal of Polymer Science, Part A: Polymer Chemistry (2003), 41(18), 2765-2777 CODEN: JPACEC; ISSN: 0887-624X

Document Type

Journal

Language

English

L9 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

White light emission from polymer light-emitting devices based on blue and red phosphorescent polymers

Author/Inventor

Suzuki, Mitsunori; Tokito, Shizuo; Kamachi, Motoaki; Shirane, Kourou; Sato, Fumio

Patent Assignee/Corporate Source

NHK Science and Technical Research Laboratories, Tokyo, 157-8510, Japan

Source

Journal of Photopolymer Science and Technology (2003), 16(2), 309-314 CODEN: JSTEWE; ISSN: 0914-9244

Document Type

Journal

Language

English

L9 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis and characterization of new poly(p-phenylenevinylene) derivative containing 5,5'-diphenyl-2,2'-p-(2,5-bis-hexyloxyphenylene)-bis-1,3,4-oxadiazole and distyrylbenzene moieties

Author/Inventor

Wu, Tzi-Yi; Lee, Nan-Chang; Chen, Yun

Patent Assignee/Corporate Source

Department of Chemical Engineering, National Cheng Kung University, Tainan, 701, Taiwan

Source

Synthetic Metals (2003), 139(2), 263-269 CODEN: SYMEDZ; ISSN: 0379-6779

Document Type

Journal

Language

English

L9 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Asymmetric dendrimers

Author/Inventor
Burn, Paul Leslie; Samuel, Ifor David William; Lo, Shi-Chun
Patent Assignee/Corporate Source
Isis Innovation Limited, UK
Source
PCT Int. Appl., 51 pp. CODEN: PIXXD2
Document Type
Patent
Language
English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066575	A1	20020829	WO 2002-GB765	20020220

Patent Number (1)
WO 2002066575
Kind Code (1)
A1
Patent Publication Date (1)
20020829
Application Number (1)
WO 2002-GB765
Application Date (1)
20020220
Priority Patent Number (1)
GB 2001-4176
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20010220

L9 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Multi-layered polymer light-emitting devices prepared by vapor deposition polymerization
Author/Inventor
Murata, H.
Patent Assignee/Corporate Source
US Naval Research Laboratory, Washington, DC, 20375, USA
Source
Synthetic Metals (2001), 121(1-3), 1679-1680 CODEN: SYMEDZ; ISSN: 0379-6779
Document Type
Journal
Language
English

L9 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Both sides luminous type electroluminescent devices and displays
Author/Inventor
Yoshimura, Motomu
Patent Assignee/Corporate Source
Mitsubishi Electric Corp., Japan
Source
Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF
Document Type
Patent
Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000058260	A	20000225	JP 1998-223881	19980807

Patent Number (1)
JP 2000058260
Kind Code (1)
A
Patent Publication Date (1)
20000225
Application Number (1)
JP 1998-223881
Application Date (1)

19980807
Priority Patent Number (1)
JP 1998-223881
Priority Patent Publication Date (1)
19980807

L9 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Efficient, blue light-emitting diodes using cross-linked layers of polymeric arylamine and fluorene
Author/Inventor Chen, J. P.; Klaerner, G.; Lee, J.-I.; Markiewicz, D.; Lee, V. Y.; Miller, R. D.; Scott, J. C.
Patent Assignee/Corporate Source Almaden Research Center, CPIMA, IBM Research Division, San Jose, CA, USA
Source Synthetic Metals (1999), 107(2), 129-135 CODEN: SYMEDZ; ISSN: 0379-6779
Document Type Journal
Language English

L9 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Efficient, blue light-emitting diodes using crosslinked polymer multilayers
Author/Inventor Chen, J. P.; Klaerner, G.; Lee, J.-I.; Markiewicz, D.; Lee, V. Y.; Miller, R. D.; Scott, J. C.
Patent Assignee/Corporate Source IBM Research Division, Almaden Research Center, San Jose, CA, 95120-6099, USA
Source Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 40(2), 1232-1233 CODEN: ACPPAY; ISSN: 0032-3934
Document Type Journal
Language English

L9 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Charge carrier trapping effect by luminescent dopant molecules in single-layer organic light emitting diodes
Author/Inventor Uchida, Masahiro; Adachi, Chihaya; Koyama, Toshiki; Taniguchi, Yoshio
Patent Assignee/Corporate Source Department of Functional Polymer Science, Shinshu University, Ueda, Nagano, 386-8567, Japan
Source Journal of Applied Physics (1999), 86(3), 1680-1687 CODEN: JAPIAU; ISSN: 0021-8979
Document Type Journal
Language English

L9 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Electroluminescent material
Author/Inventor Boliot, Jean Pierre; Chaput, Frederic; Dantas de Moraes, Tony Alberto; Gacoin, Thierry; Lahli, Khalid
Patent Assignee/Corporate Source Saint Gobain Vitrage S. A., Fr.
Source Fr. Demande, 33 pp. CODEN: FRXXBL
Document Type Patent
Language French

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2770222	A1	19990430	FR 1997-13553	19971029

Patent Number (1)
FR 2770222
Kind Code (1)
A1

Patent Publication Date (1)
19990430
Application Number (1)
FR 1997-13553
Application Date (1)
19971029
Priority Patent Number (1)
FR 1997-13553
Priority Patent Publication Date (1)
19971029

L9 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Novel oxadiazole-containing conjugated polymers as efficient single-layer light-emitting diodes
Author/Inventor Peng, Zhonghua; Zhang, Jianheng
Patent Assignee/Corporate Source Department of Chemistry, University of Missouri-Kansas City, Kansas City, MO, USA
Source Synthetic Metals (1999), 105(1), 73-78 CODEN: SYMEDZ; ISSN: 0379-6779
Document Type Journal
Language English

L9 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Developing technology: new polymers for single-layer LEDs
Author/Inventor Peng, Zhonghua; Bao, Zhenan; Galvin, Mary E.
Patent Assignee/Corporate Source Univ. Missouri, Kansas City, MO, 64110-2499, USA
Source CHEMTECH (1999), 29(5), 41-46 CODEN: CHTEDD; ISSN: 0009-2703
Document Type Journal
Language English

L9 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Novel polymers for single-layer light-emitting diodes
Author/Inventor Peng, Zhonghua; Zhang, Jianheng
Patent Assignee/Corporate Source Department of Chemistry, University of Missouri - Kansas City, Kansas City, MO, 64110, USA
Source Polymeric Materials Science and Engineering (1999), 80, 183-184 CODEN: PMSEDG; ISSN: 0743-0515
Document Type Journal
Language English

L9 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Charge carrier mobilities in molecular materials for electroluminescent diodes
Author/Inventor Tsutsui, Tetsuo; Tokuhisa, Hiroaki; Era, Masanao
Patent Assignee/Corporate Source Department of Materials Science and Technology, Graduate School of Engineering Sciences, Kyushu University, Fukuoka, 816, Japan
Source Proceedings of SPIE-The International Society for Optical Engineering (1998), 3281(Polymer Photonic Devices), 230-239 CODEN: PSISDG; ISSN: 0277-786X
Document Type Journal
Language English

L9 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Effect of majority carrier space charges on minority carrier injection in dye doped polymer light-emitting devices
Author/Inventor Berleb, S.; Brutting, W.; Schworer, M.; Wehrmann, R.; Elschner, A.
Patent Assignee/Corporate Source Experimentalphysik II, Universität Bayreuth, Bayreuth, 95440, Germany
Source Journal of Applied Physics (1998), 83(8), 4403-4409 CODEN: JAPIAU; ISSN: 0021-8979
Document Type Journal
Language English

L9 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Nonplanar and branched electron transporting molecules for organic EL device
Author/Inventor Tanaka, Hiromitsu; Tokito, Shizuo; Taga, Yasunori; Okada, Akane
Patent Assignee/Corporate Source Toyota Central Research & Development Lab., Inc., Aichi-ken, 480-11, Japan
Source Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (1997), 295, 337-340 CODEN: MCLCE9; ISSN: 1058-725X
Document Type Journal
Language English

L9 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Oxadiazoles and phenylquinoxalines as electron transport materials
Author/Inventor Bettenhausen, J.; Greczmiel, M.; Jandke, M.; Strohriegel, P.
Patent Assignee/Corporate Source Universität Bayreuth, Makromolekulare Chemie I und Bayreuther Institut für Makromolekulare Forschung (BIMF), 95440, Bayreuth, Germany
Source Synthetic Metals (1997), 91(1-3), 223-228 CODEN: SYMEDZ; ISSN: 0379-6779
Document Type Journal
Language English

L9 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Polymethacrylates with pendant oxadiazole units synthesis and application in organic LEDs
Author/Inventor Greczmiel, Michael; Strohriegel, Peter; Meier, Martin; Bruetting, Wolfgang
Patent Assignee/Corporate Source Universität Bayreuth, Bayreuth, 95440, Germany
Source Macromolecules (1997), 30(20), 6042-6046 CODEN: MAMOBX; ISSN: 0024-9297
Document Type Journal
Language English

L9 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title A novel fabrication technique and new conjugated polymers for multilayer polymer light-emitting diodes
Author/Inventor Murata, Hideyuki; Ukishima, Sadayuki; Hirano, Hideki; Yamanaka, Tooru
Patent Assignee/Corporate Source Chemical Synthesis Laboratories, Mitsui Petrochemical Industries Ltd., Sodogaura, 299-02, Japan
Source Polymers for Advanced Technologies (1997), 8(7), 459-464 CODEN: PADTE5; ISSN: 1042-7147
Document Type Journal
Language English

English

L9 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Efficient green electroluminescent diodes based on poly(2-dimethyloctylsilyl-1,4- phenylenevinylene)
Author/Inventor Kim, Sung Tae; Hwang, Do Hoon; Li, Xiao Chang; Gruener, Johannes; Friend, Richard H.; Holmes, Andrew B.; Shim, Hong Ku
Patent Assignee/Corporate Source Cavendish Laboratory, Department Physics, Cambridge, CB2 0HE, UK
Source Advanced Materials (Weinheim, Germany) (1996), 8(12), 979-982 CODEN: ADVMEW; ISSN: 0935-9648
Document Type Journal
Language English

L9 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent elements and manufacture thereof
Author/Inventor Myata, Akio
Patent Assignee/Corporate Source Sharp Kk, Japan
Source Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
Document Type Patent
Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08236273	A	19960913	JP 1995-39731	19950228

Patent Number (1)
JP 08236273
Kind Code (1)
A
Patent Publication Date (1)
19960913
Application Number (1)
JP 1995-39731
Application Date (1)
19950228
Priority Patent Number (1)
JP 1995-39731
Priority Patent Publication Date (1)
19950228

L9 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title New low molecular organic compounds with high glass transition temperature as materials for blue electroluminescence
Author/Inventor Salbeck, Josef
Patent Assignee/Corporate Source Corporate Research, Hoechst AG, Frankfurt/Main, D-65926, Germany
Source Inorganic and Organic Electroluminescence, [International Workshop on Electroluminescence], 8th, Berlin, Aug. 13-15, 1996 (1996), 243-246. Editor(s): Mauch, Reiner H.; Gumlich, Hans-Eckhart. Wissenschaft und Technik: Berlin, Germany. CODEN: 630XAW
Document Type Conference
Language English

L9 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Oxadiazole containing polymers and their use in polymer LEDs
Author/Inventor Bettenhausen, J.; Bruetting, R.; Greczmil, M.; Strohmig, P.; Buchwald, E.; Meier, M.; Bruetting, W.; Schwoerer, M.
Patent Assignee/Corporate Source Makromolekulare Chemie I, Universitat Bayreuth, Bayreuth, 95440, Germany

Source

Inorganic and Organic Electroluminescence, [International Workshop on Electroluminescence], 8th, Berlin, Aug. 13-15, 1996 (1996), 239-242. Editor(s): Mauch, Reiner H.; Gumlich, Hans-Eckhart. Wissenschaft und Technik: Berlin, Germany. CODEN: 63OXAW

Document Type

Conference

Language

English

L9 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Polymers for use in optical devices

Author/Inventor

Holmes, Andrew Bruce; Li, Xiao-Chang; Moratti, Stephen Carl; Murray, Kenneth Andrew; Friend, Richard Henry

Patent Assignee/Corporate Source

Cambridge Display Technology Ltd., UK

Source

PCT Int. Appl., 73 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620253	A1	19960704	WO 1995-GB3043	19951228

Patent Number (1)

WO 9620253

Kind Code (1)

A1

Patent Publication Date (1)

19960704

Application Number (1)

WO 1995-GB3043

Application Date (1)

19951228

Priority Patent Number (1)

GB 1994-26288

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19941228

L9 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

1,3,4-Oxadiazole-Containing Polymers as Electron-Injection and Blue Electroluminescent Materials in Polymer Light-Emitting Diodes

Author/Inventor

Pei, Q.; Yang, Y.

Patent Assignee/Corporate Source

UNIAx Corporation, Santa Barbara, CA, 93117, USA

Source

Chemistry of Materials (1995), 7(8), 1568-75 CODEN: CMATEX; ISSN: 0897-4756

Document Type

Journal

Language

English

L9 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Amorphous organic thin film device and amorphous organic polymer composition

Author/Inventor

Naito, Katsuyuki

Patent Assignee/Corporate Source

Tokyo Shibaura Electric Co, Japan

Source

Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06122277	A	19940506	JP 1993-40226	19930301

Patent Number (1)
JP 06122277
Kind Code (1)
A
Patent Publication Date (1)
19940506
Application Number (1)
JP 1993-40226
Application Date (1)
19930301
Priority Patent Number (1)
JP 1992-228348
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
19920827

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L3      863 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 14:55:33 ON 03 MAR 2008
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L5      261 S L4 AND POLYMER
L6      115 S L5 AND ELECTROLUMIN?
L7      67 S L6 AND PY<=2003
L8      52 S L7 AND DEV/RL
L9      27 S L8 NOT 138372-67-5/RN

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      0 138372-67-5D
      224 138372-67-5/RN
      (138372-67-5 (NOTL) 138372-67-5D )
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The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (->).

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-> s l10 and dev/rl
      790740 DEV/RL
L11     151 L10 AND DEV/RL

=> s l11 and py<=2003
      23979372 PY<=2003
L12     112 L11 AND PY<=2003

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L12 ANSWER 1 OF 112 CAPLUS COPYRIGHT 2008 ACS on STN
Title      Effect of electrolytes on driving voltages of electroluminescent devices using liquid-crystalline matrices
Author/Inventor      Mochizuki, Hiroyuki; Kawamoto, Masuki; Ikeda, Tomiki
Patent Assignee/Corporate Source      Photonics Research Institutes, National Institute of Advanced Industrial Science and Technology, Osaka, 563-8577, Japan
Source      Japanese Journal of Applied Physics, Part 1: Regular Papers, Short Notes & Review Papers (2003), 42(12), 7366-7367 CODEN: JAPNDE
Document Type      Journal
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Language
English

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Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.
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L15 107 L12 NOT L14

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L16 107 L12 NOT 184101-38-0/RN
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L16 ANSWER 1 OF 107 CAPLUS COPYRIGHT 2008 ACS on STN
Title

Organic electroluminescent devices of high luminescent efficiency and heat stability and tris(thienylphenyl)amine derivatives therefor
Author/Inventor

Yamamoto, Kimitoshi; Cho, Chun-Shi; Higuchi, Masayoshi; Kojima, Yojiro

Patent Assignee/Corporate Source

Kanagawa Academy of Science and Technology, Japan

Source

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003267972	A	20030925	JP 2002-66189	20020311

Patent Number (1)

JP 2003267972

Kind Code (1)

A

Patent Publication Date (1)

20030925

Application Number (1)

JP 2002-66189

Application Date (1)

20020311

Priority Patent Number (1)

JP 2002-66189

Priority Patent Publication Date (1)

20020311

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=> s 116 not 148044-16-0/rn
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    0 148044-16-0D
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L17 84 L16 NOT 148044-16-0/RN
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=> d 117 ibib hitstr
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L17 ANSWER 1 OF 84 CAPLUS COPYRIGHT 2008 ACS on STN
Title

Luminescent copoly(aryl ether)s consisting of alternate oxadiazole and 1,4-distyrylbenzene derivatives: Synthesis and characterization

Author/Inventor

Yu, Yun-Hao; Chen, Yun

Patent Assignee/Corporate Source

Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan

Source

Journal of Polymer Science, Part A: Polymer Chemistry (2003), 41(18), 2765-2777 CODEN: JPACEC; ISSN: 0887-624X

Document Type

Journal

Language

English

=> d 117 2 hitstr

L17 ANSWER 2 OF 84 CAPLUS COPYRIGHT 2008 ACS on STN

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22 61843-06-9/RN
(61843-06-9 (NOTL) 61843-06-9D)
L18 74 L17 NOT 61843-06-9/RN

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L18 ANSWER 2 OF 74 CAPLUS COPYRIGHT 2008 ACS on STN

=> d 118 3 hitstr

L18 ANSWER 3 OF 74 CAPLUS COPYRIGHT 2008 ACS on STN

=> s 118 not 545392-62-9/rn
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1 545392-62-9/RN
(545392-62-9 (NOTL) 545392-62-9D)
L19 73 L18 NOT 545392-62-9/RN

=> d 119 3 hitstr

L19 ANSWER 3 OF 73 CAPLUS COPYRIGHT 2008 ACS on STN

=> d 119 5 hitstr

L19 ANSWER 5 OF 73 CAPLUS COPYRIGHT 2008 ACS on STN

=> s 119 not 171408-95-0/rn
12 171408-95-0
0 171408-95-0D
12 171408-95-0/RN
(171408-95-0 (NOTL) 171408-95-0D)
L20 66 L19 NOT 171408-95-0/RN

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L20 ANSWER 4 OF 66 CAPLUS COPYRIGHT 2008 ACS on STN

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nested terms that are not separated by a logical operator.

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0 365999-68-4D
2 365999-68-4/RN
(365999-68-4 (NOTL) 365999-68-4D)

L21 64 L20 NOT 365999-68-4/RN

=> d 121 4 hitstr

L21 ANSWER 4 OF 64 CAPLUS COPYRIGHT 2008 ACS on STN

=> d 121 5 hitstr

L21 ANSWER 5 OF 64 CAPLUS COPYRIGHT 2008 ACS on STN

=> d 121 6 hitstr

L21 ANSWER 6 OF 64 CAPLUS COPYRIGHT 2008 ACS on STN

=> s 121 not 473906-58-0

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or PHITSTR) to directly view retrieved structures.

L23 1 L22

L24 63 L21 NOT L23

=> d 124 6 hitstr

L24 ANSWER 6 OF 63 CAPLUS COPYRIGHT 2008 ACS on STN

=> s 124 not 471911-31-6/rn

1 471911-31-6

0 471911-31-6D

1 471911-31-6/RN

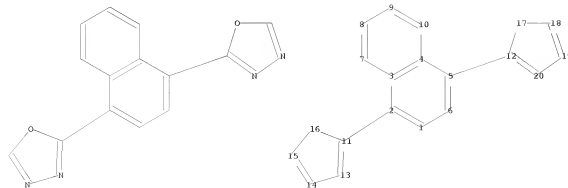
(471911-31-6 (NOTL) 471911-31-6D)

L25 62 L24 NOT 471911-31-6/RN

=> d 125 6 hitstr

L25 ANSWER 6 OF 62 CAPLUS COPYRIGHT 2008 ACS on STN

=>



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

chain bonds :

2-11 5-12

ring bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-10 5-6 7-8 8-9 9-10 11-13 11-16 12-17 12-20 13-14 14-15 15-16 17-18 18-19 19-20

exact/norm bonds :

11-13 11-16 12-17 12-20 13-14 14-15 15-16 17-18 18-19 19-20

exact bonds :

2-11 5-12

normalized bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-10 5-6 7-8 8-9 9-10

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom

L26 STRUCTURE UPLOADED

=> s l26 sss sam
SAMPLE SEARCH INITIATED 15:20:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 56 TO ITERATE

100.0% PROCESSED 56 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 672 TO 1568
PROJECTED ANSWERS: 0 TO 0

L27 0 SEA SSS SAM L26

=> s l26 sss full
FULL SEARCH INITIATED 15:20:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 901 TO ITERATE

100.0% PROCESSED 901 ITERATIONS 24 ANSWERS
SEARCH TIME: 00.00.01

L28 24 SEA SSS FUL L26

=> s l28
L29 9 L28

=> d l9 1-9 ibib hitr
'HITSR' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CRIB ----- AN, plus Compressed Bibliographic Data
DALI ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
MAX ----- ALL, plus Patent FAM, RE

SAM ----- CC, SX, TI, ST, IT
 SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
 SCAN must be entered on the same line as the DISPLAY,
 e.g., D SCAN or DISPLAY SCAN)
 STD ----- BIB, CLASS
 IABS ----- ABS, indented with text labels
 IALL ----- ALL, indented with text labels
 IBIB ----- BIB, indented with text labels
 IMAX ----- MAX, indented with text labels
 ISTD ----- STD, indented with text labels
 OBIB ----- AN, plus Bibliographic Data (original)
 OIBIB ----- OBIB, indented with text labels
 SBIB ----- BIB, no citations
 SIBIB ----- IBIB, no citations
 HIT ----- Fields containing hit terms
 HITIND ----- IC, ICA, ICI, NCI, CC and index field (ST and IT)
 containing hit terms
 HITRN ----- HIT RN and its text modification
 HITSTR ----- HIT RN, its text modification, its CA index name, and
 its structure diagram
 HITSEQ ----- HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 PHITSTR ----- First HIT RN, its text modification, its CA index name, and
 its structure diagram
 PHITSEQ ----- First HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 KWIC ----- Hit term plus 20 words on either side
 OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (→). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, PHITSTR, HITSEQ, PHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
 ENTER DISPLAY FORMAT (BIB):end

=> d 19 1-9 ibib hitstr

L9 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent devices of high luminescent efficiency and heat stability and tris(thienylphenyl)amine derivatives therefor
 Author/Inventor Yamamoto, Kimitoshi; Cho, Chun-Shi; Higuchi, Masayoshi; Kojima, Yojiro
 Patent Assignee/Corporate Source Kanagawa Academy of Science and Technology, Japan
 Source Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF
 Document Type Patent
 Language Japanese

Patent Information

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
JP 2003267972	A	20030925	JP 2002-66189	20020311

Patent Number (1)

JP 2003267972

Kind Code (1)

A

Patent Publication Date (1)

20030925

Application Number (1)

JP 2002-66189

Application Date (1)

20020311
Priority Patent Number (1)
JP 2002-66189
Priority Patent Publication Date (1)
20020311

L9 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Luminescent copoly(aryl ether)s consisting of alternate oxadiazole and 1,4-distyrylbenzene derivatives: Synthesis and characterization
Author/Inventor Yu, Yun-Hao; Chen, Yun
Patent Assignee/Corporate Source Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan
Source Journal of Polymer Science, Part A: Polymer Chemistry (2003), 41(18), 2765-2777 CODEN: JPACED; ISSN: 0887-624X
Document Type Journal
Language English

L9 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title White light emission from polymer light-emitting devices based on blue and red phosphorescent polymers
Author/Inventor Suzuki, Mitsunori; Tokito, Shizuo; Kamachi, Motoaki; Shirane, Kourou; Sato, Fumio
Patent Assignee/Corporate Source NHK Science and Technical Research Laboratories, Tokyo, 157-8510, Japan
Source Journal of Photopolymer Science and Technology (2003), 16(2), 309-314 CODEN: JSTEED; ISSN: 0914-9244
Document Type Journal
Language English

L9 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Synthesis and characterization of new poly(p-phenylenevinylene) derivative containing 5,5'-diphenyl-2,2'-p-(2,5-bis-hexyloxyphenylene)-bis-1,3,4-oxadiazole and distyrylbenzene moieties
Author/Inventor Wu, Tzi-Yi; Lee, Nan-Chang; Chen, Yun
Patent Assignee/Corporate Source Department of Chemical Engineering, National Cheng Kung University, Tainan, 701, Taiwan
Source Synthetic Metals (2003), 139(2), 263-269 CODEN: SYMEDZ; ISSN: 0379-6779
Document Type Journal
Language English

L9 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title Asymmetric dendrimers
Author/Inventor Burn, Paul Leslie; Samuel, Ifor David William; Lo, Shi-Chun
Patent Assignee/Corporate Source Isis Innovation Limited, UK
Source PCT Int. Appl., 51 pp. CODEN: PIXXD2
Document Type Patent
Language English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066575	A1	20020829	WO 2002-GB765	20020220

Patent Number (1)
WO 2002066575
Kind Code (1)

A1
Patent Publication Date (1)
20020829
Application Number (1)
WO 2002-GB765
Application Date (1)
20020220
Priority Patent Number (1)
GB 2001-4176
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20010220

L9 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Multi-layered polymer light-emitting devices prepared by vapor deposition polymerization
Author/Inventor
Murata, H.
Patent Assignee/Corporate Source
US Naval Research Laboratory, Washington, DC, 20375, USA
Source
Synthetic Metals (2001), 121(1-3), 1679-1680 CODEN: SYMEDZ; ISSN: 0379-6779
Document Type
Journal
Language
English

L9 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Both sides luminous type electroluminescent devices and displays
Author/Inventor
Yoshimura, Motomu
Patent Assignee/Corporate Source
Mitsubishi Electric Corp., Japan
Source
Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF
Document Type
Patent
Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000058260	A	20000225	JP 1998-223881	19980807

Patent Number (1)
JP 2000058260
Kind Code (1)
A
Patent Publication Date (1)
20000225
Application Number (1)
JP 1998-223881
Application Date (1)
19980807
Priority Patent Number (1)
JP 1998-223881
Priority Patent Publication Date (1)
19980807

L9 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Efficient, blue light-emitting diodes using cross-linked layers of polymeric arylamine and fluorene
Author/Inventor
Chen, J. P.; Klaerner, G.; Lee, J.-I.; Markiewicz, D.; Lee, V. Y.; Miller, R. D.; Scott, J. C.
Patent Assignee/Corporate Source
Almaden Research Center, CPIMA, IBM Research Division, San Jose, CA, USA
Source
Synthetic Metals (1999), 107(2), 129-135 CODEN: SYMEDZ; ISSN: 0379-6779
Document Type
Journal

Language
English

L9 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Efficient, blue light-emitting diodes using crosslinked polymer multilayers

Author/Inventor

Chen, J. P.; Klaerner, G.; Lee, J.-I.; Markiewicz, D.; Lee, V. Y.; Miller, R. D.; Scott, J. C.

Patent Assignee/Corporate Source

IBM Research Division, Almaden Research Center, San Jose, CA, 95120-6099, USA

Source

Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 40(2), 1232-1233 CODEN: ACPPAY; ISSN: 0032-3934

Document Type

Journal

Language
English

=> d his

{FILE 'HOME' ENTERED AT 14:54:50 ON 03 MAR 2008}

FILE 'REGISTRY' ENTERED AT 14:55:06 ON 03 MAR 2008

L1 STRUCTURE UPLOADED

L2 44 S L1 SSS SAM

L3 863 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 14:55:33 ON 03 MAR 2008

L4 706 S L3

L5 261 S L4 AND POLYMER

L6 115 S L5 AND ELECTROLUMIN?

L7 67 S L6 AND PY<-2003

L8 52 S L7 AND DEV/RL

L9 27 S L8 NOT 138372-67-5/RN

L10 482 S L4 NOT 138372-67-5/RN

L11 151 S L10 AND DEV/RL

L12 112 S L11 AND PY<-2003

S L12 NOT 184101-38-0/REG#

FILE 'REGISTRY' ENTERED AT 15:08:07 ON 03 MAR 2008

L13 1 S 184101-38-0/RN

FILE 'CAPLUS' ENTERED AT 15:08:07 ON 03 MAR 2008

L14 11 S L13

L15 107 S L12 NOT L14

L16 107 S L12 NOT 184101-38-0/RN

L17 84 S L16 NOT 148044-16-0/RN

L18 74 S L17 NOT 61843-06-9/RN

L19 73 S L18 NOT 545392-62-9/RN

L20 66 S L19 NOT 171408-95-0/RN

L21 64 S L20 NOT 365999-68-4/RN

S L21 NOT 473906-58-0/REG#

FILE 'REGISTRY' ENTERED AT 15:12:55 ON 03 MAR 2008

L22 1 S 473906-58-0/RN

FILE 'CAPLUS' ENTERED AT 15:12:55 ON 03 MAR 2008

L23 1 S L22

L24 63 S L21 NOT L23

L25 62 S L24 NOT 471911-31-6/RN

FILE 'REGISTRY' ENTERED AT 15:19:41 ON 03 MAR 2008

L26 STRUCTURE UPLOADED

L27 0 S L26 SSS SAM

L28 24 S L26 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:20:43 ON 03 MAR 2008

L29 9 S L28

=> d 129 1-9 ibib hitstr

L29 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescence display showing high heat-resistance, low voltage driving, and extended service life

Author/Inventor
Toba, Yasumasa; Tanaka, Hiroaki; Odachi, Yoshitake; Suda, Yasumasa; Yagi, Tamao
Patent Assignee/Corporate Source
Toyo Ink Mfg. Co., Ltd., Japan
Source
Jpn. Kokai Tokkyo Koho, 101pp. CODEN: JKXXAF
Document Type
Patent
Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007109988	A	20070426	JP 2005-301171	20051017

Patent Number (1)
JP 2007109988
Kind Code (1)
A
Patent Publication Date (1)
20070426
Application Number (1)
JP 2005-301171
Application Date (1)
20051017
Priority Patent Number (1)
JP 2005-301171
Priority Patent Publication Date (1)
20051017

L29 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Preparation of polymers with high luminance and durability for blue light-emitting devices

Author/Inventor
Nakaya, Tadao; Matsumoto, Ryoji; Saikawa, Tomoyuki
Patent Assignee/Corporate Source
Hirose Engineering Co., Ltd., Japan
Source
PCT Int. Appl., 59 pp. CODEN: PIXXD2
Document Type
Patent
Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006025219	A1	20060309	WO 2005-JP15047	20050818

Patent Number (1)
WO 2006025219
Kind Code (1)
A1
Patent Publication Date (1)
20060309
Application Number (1)
WO 2005-JP15047
Application Date (1)
20050818
Priority Patent Number (1)
JP 2004-254047
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20040901

L29 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Light-emitting compound and polymer and luminescent element

Author/Inventor
Nakaya, Tadao; Matsumoto, Ryoji; Ishitobi, Tatsuro
Patent Assignee/Corporate Source
Hirose Engineering Co., Ltd., Japan
Source

Eur. Pat. Appl., 74 pp. CODEN: EPXXDW

Document Type
Patent
Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1516903	A1	20050323	EP 2004-22456	20040921

Patent Number (1)
EP 1516903
Kind Code (1)
A1
Patent Publication Date (1)
20050323
Application Number (1)
EP 2004-22456
Application Date (1)
20040921
Priority Patent Number (1)
JP 2003-330594
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20030922

L29 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Luminescent polymers for light emitting devices
Author/Inventor
Nakaya, Tadao; Tobita, Michiaki; Eto, Naonobu; Kodera, Toshihiro
Patent Assignee/Corporate Source
Hirose Engineering Co., Ltd., Japan

Source
PCT Int. Appl., 100 pp. CODEN: PIXXD2

Document Type
Patent
Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039866	A1	20040513	WO 2003-JP13597	20031024

Patent Number (1)
WO 2004039866
Kind Code (1)
A1
Patent Publication Date (1)
20040513
Application Number (1)
WO 2003-JP13597
Application Date (1)
20031024
Priority Patent Number (1)
JP 2002-315029
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20021029

L29 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Triptycene derivatives and their use for optoelectronic applications, particularly as electroluminescent materials
Author/Inventor
Salbeck, Josef; Becker, Heinrich; Kreuder, Willi; Weinfurter, Karl Heinz
Patent Assignee/Corporate Source
Hoechst A.-G., Germany

Source
Ger. Offen., 22 pp. CODEN: GWXXBX

Document Type
Patent
Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19744792	A1	19990415	DE 1997-19744792	19971010

Patent Number (1)

DE 19744792

Kind Code (1)

A1

Patent Publication Date (1)

19990415

Application Number (1)

DE 1997-19744792

Application Date (1)

19971010

Priority Patent Number (1)

DE 1997-19744792

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19971010

L29 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Novel amorphous molecular materials for organic light-emitting devices

Author/Inventor

Weinfurter, Karl-Heinz; Weissortel, Frank; Harmgarth, Gabriele; Salbeck, Josef

Patent Assignee/Corporate Source

Max-Planck-Institut für Polymerforschung, Mainz, D-55128, Germany

Source

Proceedings of SPIE-The International Society for Optical Engineering (1998), 3476(Organic Light-Emitting Materials and Devices II), 40-48 CODEN: PSISDG; ISSN: 0277-786X

Document Type

Journal

Language

English

L29 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Bis(oxadiazolyl)naphthalene fluorescent whiteners

Author/Inventor

Schinzel, Erich; Martini, Thomas; Spatzier, Winfried; Probst, Heinz

Patent Assignee/Corporate Source

Hoechst A.-G., Fed. Rep. Ger.

Source

Ger. Offen., 32 pp. CODEN: GWXXBX

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3126464	A1	19830120	DE 1981-3126464	19810704

Patent Number (1)

DE 3126464

Kind Code (1)

A1

Patent Publication Date (1)

19830120

Application Number (1)

DE 1981-3126464

Application Date (1)

19810704

Priority Patent Number (1)

DE 1981-3126464

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19810704

L29 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Benzofuran derivatives useful as fluorescent whiteners

Author/Inventor

Prossel, Guenter; Sahm, Winfrid; Schinzel, Erich; Roesch, Guenter

Patent Assignee/Corporate Source

Hoechst A.-G., Fed. Rep. Ger.

Source

Ger. Offen., 29 pp. CODEN: GWXXBX

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2509514	A1	19760916	DE 1975-2509514	19750305

Patent Number (1)

DE 2509514

Kind Code (1)

A1

Patent Publication Date (1)

19760916

Application Number (1)

DE 1975-2509514

Application Date (1)

19750305

Priority Patent Number (1)

DE 1975-2509514

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19750305

L29 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Vat dyes of the bis(anthraquinone 1,3,4-oxadiazole) series

Author/Inventor

Stilmar, Frederic B.

Patent Assignee/Corporate Source

E. I. du Pont de Nemours & Co.

Document Type

Patent

Language

Unavailable

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2511018		19500613	US 1949-81619	19490315

Patent Number (1)

US 2511018

Patent Publication Date (1)

19500613

Application Number (1)

US 1949-81619

Application Date (1)

19490315

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